



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE: February 4, 2016

SUBJECT: Region III Data QA Review

FROM: Brandon McDonald *[Signature]*  
Region III ESAT PO (3EA22)

TO: Michael Towle  
On-Scene Coordinator (3HS31)

Attached is the organic data validation report for the Queen Street VOC site for Case/DAS#45855; SDG#:C0AA0 completed by the Region III Environmental Services Assistance Team (ESAT), ICF International, contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2607.

Attachment

cc: (b) (4) [REDACTED] (Tech Law)  
[REDACTED]

TO: #0002 TDF: #0116012

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US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3011

**DATE:** January 27, 2016

**TO:** Brandon McDonald  
ESAT Region 3 Project Officer

**FROM:** (b) (4)  
Data Review Chemist

(b) (4)  
Oversight Chemist

**SUBJECT:** Organic Data Validation (S4VEM)  
Site: Queen Street VOC  
Case: 45855, SDG: C0AA0

## OVERVIEW

Case 45855, Sample Delivery Group (SDG) C0AA0, consisted of one (1) trip blank, one (1) field blank, one (1) rinsate blank and four (4) ground water samples including one (1) field duplicate pair analyzed for trace volatile compounds. Samples were analyzed by ChemTech Consulting Group (CHM) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.3 through the Routine Analysis Services (RAS) program.

## SUMMARY

Validation of data was performed based on the Organic National Functional Guidelines utilizing the Environmental Data Exchange and Evaluation System (EXES) and are assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual). No areas of concern with respect to data usability were noted.

## NOTES

Compounds detected below Contract Required Quantitation Limits (CRQLs) are qualified "J".

Method and storage blanks associated with this sample set were free of contamination. Acetone was detected in the trip, field and rinsate blanks. This compound was not detected in the field samples. No data were qualified based on this finding.

Benzene exceeded the calibration range in the initial analysis of trace volatile sample C0AA2. This sample was reanalyzed at a five-fold (5X) dilution to bring the concentration of this compound within the calibration range. The result for benzene in this sample was reported from the diluted analysis.

Sample C0AA0 is listed on the Chain of Custody (COC) record as the field duplicate pair to a sample with station location MW-21. No sample with station location MW-21 was part of this sampling group. Therefore, no comparison could be made by the reviewer.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and should be considered estimated.

A sub-set of manual integrations noted in the laboratory case narrative were evaluated by the reviewer and found to be accurate and consistent. No action was taken by the reviewer based on manual integrations performed by the laboratory.

### **GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)**

- U     The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.
- J     The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+    The result is an estimated quantity, but the result may be biased high.
- J-    The result is an estimated quantity, but the result may be biased low.
- NJ    The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
- UJ    The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.
- R     The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- C     This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
- X     This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.

# Sample Summary Report

Case No:	45855	Contract:	EPW14030	SDG No:	C0AA0	Lab Code:	CHM
Sample Number:	C0AA0	Method:	Trace Volatiles	Matrix:	Water	MA Number:	
Sample Location:	MW-01	pH:	1.0	Sample Date:	12/10/2015	Sample Time:	10:52:00
% Moisture :				% Solids :	0		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.76		ug/L	0.76		1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.15	J	ug/L	0.15	J	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-02	pH: 1.3	Sample Date: 12/10/2015	Sample Time: 12:30:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	2.5		ug/L	2.5		1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	2.9		ug/L	2.9		1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	26		ug/L	26	D	5.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	1.2		ug/L	1.2		1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	8.1		ug/L	8.1		1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50		ug/L	0.50		1.0	Yes	S4VEM
o-Xylene	Target	1.8		ug/L	1.8		1.0	Yes	S4VEM
m,p-Xylene	Target	2.4		ug/L	2.4		1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.97		ug/L	0.97		1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene, 1,2,4,5-tetramethyl-	TIC	7.7	J	ug/L	7.7	J	1.0	Yes	NV
3-Pentanone, 2,2-dimethyl-	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV
unknown-01	TIC	1.1	J	ug/L	1.1	J	1.0	Yes	NV
Benzene, 1,2,3-trimethyl-	TIC	1.0	J	ug/L	1.0	J	1.0	Yes	NV
Benzene, 2-ethenyl-1,4-dimethyl-	TIC	4.8	J	ug/L	4.8	J	1.0	Yes	NV
Total Alkanes	TIC	74		ug/L	74		1.0	Yes	NV
Benzene, 1-ethenyl-3-ethyl-	TIC	4.4	J	ug/L	4.4	J	1.0	Yes	NV
1H-Indene, 2,3-dihydro-1,6-dimethyl	TIC	2.5	J	ug/L	2.5	J	1.0	Yes	NV
unknown-02	TIC	1.1	J	ug/L	1.1	J	1.0	Yes	NV
1H-Indene, 2,3-dihydro-4,7-dimethyl	TIC	0.81	J	ug/L	0.81	J	1.0	Yes	NV
1H-Indene, 2,3-dihydro-2,2-dimethyl	TIC	0.86	J	ug/L	0.86	J	1.0	Yes	NV
Benzene, 1-ethyl-4-(1-methylethyl)	TIC	3.2	J	ug/L	3.2	J	1.0	Yes	NV
Benzene, 1-ethenyl-4-ethyl-	TIC	3.9	J	ug/L	3.9	J	1.0	Yes	NV
Endo-tricyclo[5.2.1.0(2.6)]decane	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, (2-methylpropyl)-	TIC	2.4	J	ug/L	2.4	J	1.0	Yes	NV
Benzene, 1,2-diethyl-	TIC	4.0	J	ug/L	4.0	J	1.0	Yes	NV
Benzene, 1-ethyl-2,3-dimethyl-	TIC	3.6	J	ug/L	3.6	J	1.0	Yes	NV
4,7-Methanoindene, 3a,4,5,6,7,7a-h	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Benzene, propyl-	TIC	3.3	J	ug/L	3.3	J	1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA3	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-13	pH: 1.0	Sample Date: 12/10/2015	Sample Time: 09:23:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA5	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: TB01	pH: 1.0	Sample Date: 12/09/2015	Sample Time: 08:40:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	18		ug/L	18		1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA6	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: FB01	pH: 1.0	Sample Date: 12/10/2015	Sample Time: 11:08:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	23		ug/L	23		1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA7	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: RB01	pH: 1.0	Sample Date: 12/10/2015	Sample Time: 11:18:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	30		ug/L	30		1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: IDW01	pH: 1.0	Sample Date: 12/10/2015	Sample Time: 13:09:00
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	1.3		ug/L	1.3		1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	1.2		ug/L	1.2		1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	9.0		ug/L	9.0		1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.35	J	ug/L	0.35	J	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.20	J	ug/L	0.20	J	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	6.5		ug/L	6.5		1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.37	J	ug/L	0.37	J	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.15	J	ug/L	0.15	J	1.0	Yes	S4VEM
o-Xylene	Target	0.40	J	ug/L	0.40	J	1.0	Yes	S4VEM
m,p-Xylene	Target	0.80		ug/L	0.80		1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.19	J	ug/L	0.19	J	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.18	J	ug/L	0.18	J	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
unknown-01	TIC	2.5	J	ug/L	2.5	J	1.0	Yes	NV
Amylene Hydrate	TIC	0.93	J	ug/L	0.93	J	1.0	Yes	NV
Benzene, 1,2,3-trimethyl-	TIC	0.81	J	ug/L	0.81	J	1.0	Yes	NV
Benzene, (1-methylethyl)-	TIC	0.78	J	ug/L	0.78	J	1.0	Yes	NV
Imidazol-5(2H)-one, 4-amino-2-(2-f	TIC	0.76	J	ug/L	0.76	J	1.0	Yes	NV
Total Alkanes	TIC	28		ug/L	28		1.0	Yes	NV
Propanoic acid, butyl ester	TIC	8.6	J	ug/L	8.6	J	1.0	Yes	NV
Benzene, cyclopropyl-	TIC	1.3	J	ug/L	1.3	J	1.0	Yes	NV
Benzene, 1-ethyl-3-methyl-	TIC	1.5	J	ug/L	1.5	J	1.0	Yes	NV
4,7-Methanoindene, 3a,4,5,6,7,7a-h	TIC	0.56	J	ug/L	0.56	J	1.0	Yes	NV
3-Pentanone, 2,2-dimethyl-	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV
Benzene, propyl-	TIC	0.59	J	ug/L	0.59	J	1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: VBLK33	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: VBLK34	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: VBLK60	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.6	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45855	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: VIBLK57	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexene,3-(2-propenyl)-	TIC	1.1	J	ug/L	1.1	J	1.0	Yes	NV
Total Alkanes	TIC			ug/L			1.0	Yes	NV

